

Remarks

Claims 1-20 are pending, and claims 1-20 stand rejected. The Applicants respectfully traverse the rejection and request allowance of claims 1-20.

§ 102 Claim Rejections

The Examiner rejected claims 1-20 under 35 U.S.C. § 102 as anticipated by U.S. Patent number 6,185,221 (Aybay). The Applications submit that claims 1-20 are novel and non-obvious in view of Aybay.

Aybay does not teach the communication circuitry described in independent claim 1 of the pending application. Claim 1 describes communication circuitry comprising parallel channels, processing circuitry, and crossbar integrated circuits, *wherein the parallel channels transfer communications in parallel with a clock signal between the processing circuitry and the crossbar circuitry*. Aybay does not teach this. Aybay recites a crossbar (60) connected to a packet processing unit (88) (*see Aybay*, FIG. 5; column 5, lines 9-52). Aybay does not state that the packet processing unit communicates with the crossbar over a parallel channel, and only states that they communicate over a data path (68) (*see Aybay*; column 5, lines 51-61). Aybay does not state that the data path (68) between the packet processing unit and the crossbar is a parallel channel that transfers communications in parallel with a clock signal. Aybay actually teaches away from a parallel channel in FIG. 6 by showing how a cell is transmitted through a switch (*see Aybay*, FIG. 6; column 8, lines 5-21). FIG. 6 illustrates the cell as being transmitted serially based on clock pulses (*see Aybay*, FIG. 6; column 8, lines 5-21). The serial transmission in Aybay resembles the system described in FIG. 1 and the background of the pending application, which is distinguished from claim 1.

For these reasons, claim 1 is novel and non-obvious over Aybay. The same arguments apply to independent claim 11.

Conclusion

Based on the above remarks, the applicants submit that independent claims 1 and 11 are allowable. The dependent claims are allowable as being dependent on an allowable independent claim. There may be additional reasons in support of patentability, but such reasons are omitted.

in the interests of brevity. The Applicants respectfully request allowance of claims 1-20.

Any fees may be charged to deposit account 502622.

Respectfully submitted,

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**SIGNATURE OF PRACTITIONER**

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